

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P1212311

Luminaire Tested: **LDSQA4A30930D010TE LAR35FL 4LSQA1H**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14
Report Number: P1212311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26795)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A30930D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

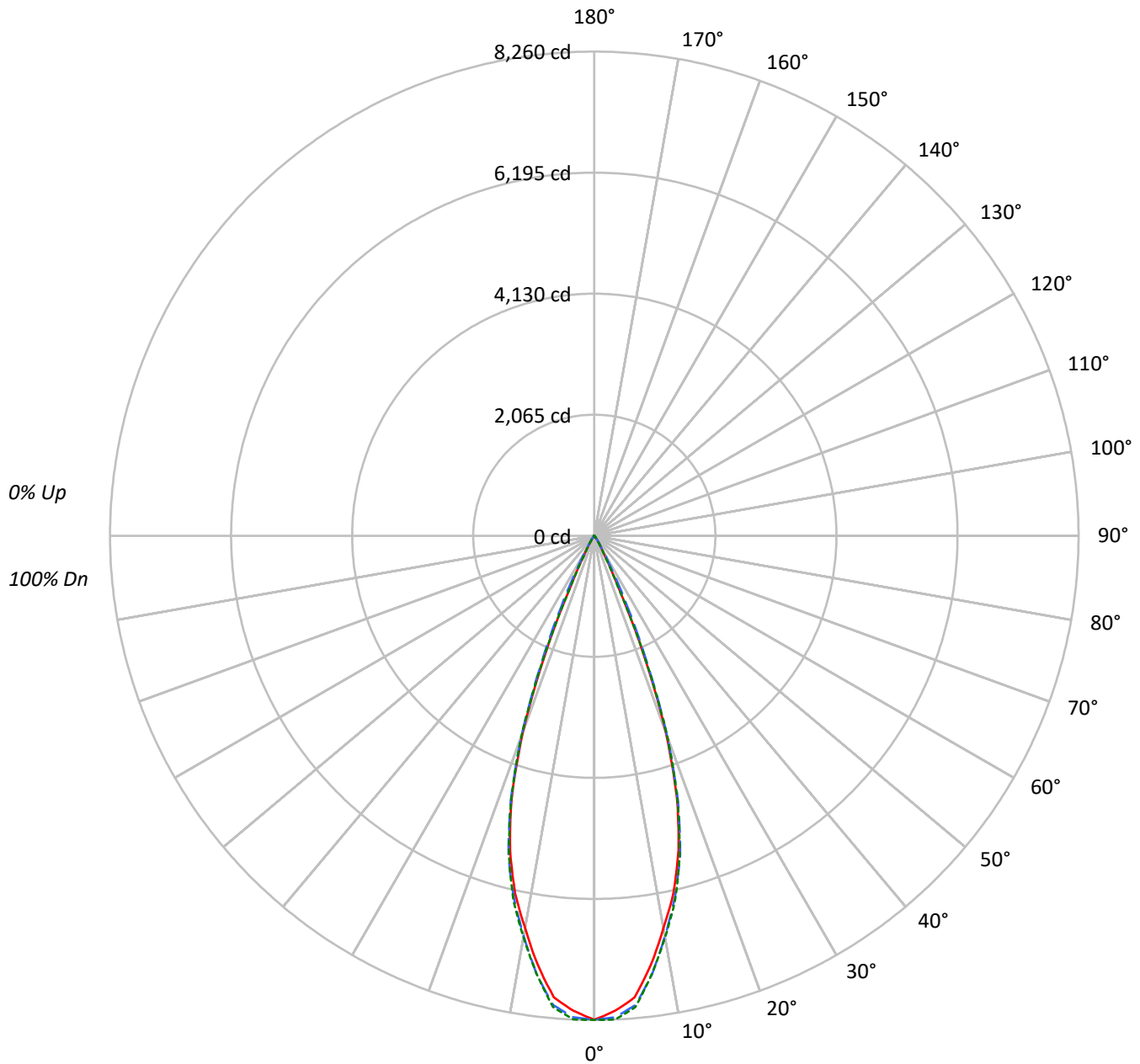
Lumens per Lamp: N/A
Luminaire Lumens: 2942.2 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	107	105	104		103	102	101		99
2	111	107	104	101	109	105	103	100	102	100	98		99	98	96		97
3	107	102	98	95	105	101	97	95	98	96	93		96	94	92		94
4	103	98	94	91	102	97	93	90	95	92	89		93	90	88		91
5	100	94	90	86	99	93	89	86	91	88	85		90	87	85		88
6	97	90	86	83	96	90	85	82	88	85	82		87	84	81		86
7	94	87	83	79	93	86	82	79	85	82	79		84	81	79		83
8	91	84	80	77	90	83	79	76	82	79	76		82	78	76		81
9	88	81	77	74	87	81	77	74	80	76	73		79	76	73		78
10	86	78	74	71	85	78	74	71	77	74	71		77	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	799939	799939	799939
5°	768687	781572	784742
10°	668423	682087	684054
15°	556786	567196	564699
20°	365866	374113	374639
25°	101482	142677	99878
30°	24341	30919	24766
35°	6504	11235	6363
40°	2377	4274	2213
45°	1192	1548	1028
50°	754	754	558
55°	422	422	203
60°	484	233	233
65°	275	275	275
70°	340	340	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.7	24.7
10°-20°	1504.6	51.1
20°-30°	642.6	21.8
30°-40°	56.7	1.9
40°-50°	8.4	0.3
50°-60°	2.4	0.1
60°-70°	1.2	0.0
70°-80°	0.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2872.9	97.6
0°-40°	2929.6	99.6
0°-60°	2940.4	99.9
0°-90°	2942.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2942.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8257	8257	8257	8257	8257	
5°	7905	7970	8037	8025	8070	716
15°	5552	5605	5655	5614	5630	1488
25°	949	1293	1335	1277	934	582
35°	55	69	95	68	54	46
45°	9	9	11	9	8	7
55°	2	2	2	2	1	3
65°	1	1	1	1	1	1
75°	0	1	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8257.4	8257.4	8257.4	8257.4	8257.4
2.5°	8112.3	8169.8	8221.1	8217.2	8259.8
5°	7904.6	7969.7	8037.1	8024.7	8069.7
7.5°	7386.7	7453.0	7540.6	7506.8	7536.8
10°	6795.0	6865.1	6933.9	6912.5	6953.9
12.5°	6240.9	6280.9	6330.9	6327.2	6370.9
15°	5551.6	5605.4	5655.4	5614.2	5630.5
17.5°	4688.5	4709.7	4747.2	4706.0	4717.2
20°	3548.9	3607.6	3628.9	3581.4	3634.0
22.5°	2220.3	2361.7	2373.0	2348.0	2269.2
25°	949.4	1293.4	1334.8	1277.2	934.4
27.5°	384.1	490.3	635.5	480.4	374.0
30°	217.6	236.4	276.4	232.7	221.4
32.5°	103.8	132.5	158.9	128.8	105.1
35°	55.0	68.8	95.0	67.6	53.8
37.5°	31.3	40.0	57.5	37.5	31.3
40°	18.8	23.7	33.8	22.5	17.5
42.5°	12.5	15.0	18.8	13.8	11.3
45°	8.7	8.7	11.3	8.7	7.5
47.5°	6.2	6.2	7.5	5.0	5.0
50°	5.0	5.0	5.0	3.7	3.7
52.5°	3.7	3.7	3.7	2.5	2.5
55°	2.5	2.5	2.5	2.5	1.2
57.5°	2.5	2.5	2.5	1.2	1.2
60°	2.5	2.5	1.2	1.2	1.2
62.5°	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	0.0
72.5°	1.2	1.2	1.2	1.2	1.2
75°	0.0	1.2	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Classified

Scaled Data Report

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— 0°-180° - - 45°-225° - - - 90°-270°

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